



OIPE

ENTERED

RAW SEQUENCE LISTING
PATENT APPLICATION US/10/077,176

DATE: 03/04/2002
TIME: 14:46:32

Input Set : A:\433480_1.txt
Output Set: N:\CRF3\03042002\J077176.raw

```

4 <110> APPLICANT: Brachmann, Rainer
6 <120> TITLE OF INVENTION: ENGINEERED OPEN READING FRAME FOR P53
9 <130> FILE REFERENCE: 004255.00008
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/077,176
C--> 11 <141> CURRENT FILING DATE: 2002-02-19
11 <160> NUMBER OF SEQ ID NOS: 21
13 <170> SOFTWARE: FastSEQ for Windows Version 4.0
15 <210> SEQ ID NO: 1
16 <211> LENGTH: 1182
17 <212> TYPE: DNA
18 <213> ORGANISM: Artificial Sequence
20 <220> FEATURE:
21 <223> OTHER INFORMATION: Produced by genetic engineering
23 <400> SEQUENCE: 1
24 atggaagaac cacagtcaga tctagcgtc gaaccacctc tgagtcagga aaccttttca 60
25 gaactgtgga aattgtctcc tgaanacaac gttctgtccc cattgcctag tcaagcaatg 120
26 gatgatttga tctgtctccc agacgatatt gaacaatggt tcaactgaaga tccaggccca 180
27 gatgaagctc cagcaatgcc agaggccgct ccaccggttg cccagcacc agcagctctt 240
28 aacccggcgg cccagctccc ggccccatcc tggcctctgt catcttctgt ccttcccag 300
29 aaaaacctacc agggcagcta cggtttccgt ctgggcttct tgcattctgg aactgccaa 360
30 tctgttaact gtacgtactc tccagccctt aacaagatgt cctccacctg gtacacgtgt ccgcgcaatg 420
31 tgcacagtc cactgtgggt cgactccacc cctccacctg gtacacgtgt ccgcgcaatg 480
32 gccatctaca agcagagcca gcacatgac gaggtcgtag gacgtgttcc acaccatgag 540
33 cgtgtctcag attctgatgg tctggcgcca ccacagcacc ttatccgagt ggaaggtaac 600
34 ctacgcgtgg agtatctaga tgaccgcaac acttttcgac acagtgtggt ggtgccatat 660
35 gaggcaccag aagtttgctc tgaactgacc accatccact acaactatat gtgtaacagt 720
36 tcaatgcatt gccgcctgaa ccggcgcccg atcctgacca tcatcactct cagaggattcc 780
37 tcaagtaate tctaggacg gaattccttt gaggtgctg tttgtgcatg cccgggccgc 840
38 gacgcgccga ccgaagagga gaattccgg aagaaagtgt agcctcacca cagagtgcca 900
39 ccaaggaaga ctaagcgagc actgcccacc aacaccagca gttctccaca gccaaagaag 960
40 aaaaatttgg acggagaata ttaccacct cagatccgtg gccgtgagcg gttcgagatg 1020
41 ttccgagagc tgaatgagc cttagaactt aaggatgcc aggtggtaa ggagccagga 1080
42 ggcagccgtg ctcatagcag ccacctgaag tccaaaaagg qtcagctctc ctcccgccat 1140
43 aaaaactga tgttcaagac cgaaggtcct gactcagact ga 1182
45 <210> SEQ ID NO: 2
46 <211> LENGTH: 1182
47 <212> TYPE: DNA
48 <213> ORGANISM: Artificial Sequence
50 <220> FEATURE:
51 <223> OTHER INFORMATION: Produced by genetic engineering
53 <400> SEQUENCE: 2
54 atggaagaac cacagtcaga tctagcgtc gaaccacccc tgagtcagga aaccttttca 60
55 gatctgtgga agcttcttcc tgaanacaac gttctgtccc cattgcctag tcaagcaatg 120

```

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/077,176

DATE: 03/04/2002
 TIME: 14:46:32

Input Set : A:\433480_1.txt
 Output Set: N:\CRF3\03042002\J077176.raw

```

56 aaagatttga tctgagccc agacgatatt gaacaatggt tcaactaaga tccaggccc 180
57 aatgaagctc aaggaatgcc agagcccgtt ccacccattt ccccauccac aacacgtccc 240
58 aacccggcgg ccccagctcc ggcgccatcc tggcctctgt catcttctgt ccttccca 300
59 aaaacttacc aggcagcta cggtttccgt ctgggcttct tgcattctgg aacttccaa 360
60 tcttttactt gtaagtactc tccagccctt aacaagatgt tttaaccaact cgcgaagacc 420
61 tgcctagctc aactgtgggt cgaactccacc cctccacgtg gtacacgtgt ccgcgaatg 480
62 gccatctaca agcagagcca gcacatgacg gaggtcgtac gacgtctgtc acacatgag 540
63 ccttctcag attctgatgg tctggcgcga ccacagcacc ttatccaggt ggaaggtaac 600
64 ctacgctggg agtatctaga tgaccgcaac acttttcgac acagtgtggt ggtgccatat 660
65 gaggccaccg aagttggctc tgactgcacc accatccact acaactatat gtgtaacagt 720
66 tcatgcatgg gggccatgaa cgggcggcgg atcctgacca tcatcactct cgaaggatcc 780
67 tcaagtaata tctaggaagc gaattccctt gaggtgcgtg ttgtgtcatt cccgggcggc 840
68 gatcgccggg ccgaagagga gaattccctt aagaaaggtg agcctcacca cgaagtgcca 900
69 ccagggaagc ctaagcgagc actgcacaaac aacacgagct cttctccaca gccaaagag 960
70 aaacttttgg acggagaata tttaacccct cagatccgtg gccgtgagcg gttccgagtg 1020
71 ttccgagagc tgaatgagc cttagaactt aaggatgcc aggtcggtta ggagccagga 1080
72 ggcagccgtg ctcatagcag ccactgaaag tccaaaaagg gtcagttcac ctcccgcct 1140
73 aaaaaactga gttcaagac cgaaggctct gactcagact ga 1182

75 <210> SEQ ID NO: 3
76 <211> LENGTH: 1181
77 <212> TYPE: DNA
78 <213> ORGANISM: Artificial Sequence
80 <20> FEATURE:
81 <22> OTHER INFORMATION: Produced by genetic engineering
83 <400> SEQUENCE: 3
84 atggaagaac cagagtcaga tctagcgtc gaaccacccc tgagtcagga aaccttttca 60
85 catctctgga agcttcttcc tgaaaaaac gttctgtccc catgacctag tcaagcaatg 120
86 gatgatttga tctgagccc agacgatatt gaacaatggt tcaactgagga tccagcccca 180
87 atggaagctc caggaatgcc agagcccgtt ccacccggtt ccccauccac agcagctccc 240
88 aacccggcgg ccccagctcc ggcgccatcc tggcctctgt catcttctgt ccttccca 300
89 aaaacttacc aggcagcta cggtttccgt ctgggcttct tgcattctgg aacttccaa 360
90 tcttttactt gtaagtactc tccagccctt aacaagatgt tttaaccaact cgcgaagacc 420
91 tgcctagctc aactgtgggt cgaactccacc cctccacgtg gtacacgtgt ccgcgaatg 480
92 gccatctaca agcagagcca gcacatgacg gaggtcgtac gacgtctgtc acacatgag 540
93 ccttctcag attctgatgg tctggcgcga ccacagcacc ttatccaggt ggaaggtaac 600
94 ctacgctggg agtatctaga tgaccgcaac acttttcgac acagtgtggt ggtgccatat 660
95 gaggccaccg aagttggctc tgactgcacc accatccact acaactatat gtgtaacagt 720
96 tcatgcatgg gggccatgaa cgggcggcgg atcctgacca tcatcactct cgaaggatcc 780
97 tcaagtaata tctaggaagc gaattccctt gaggtgcgtg ttgtgtcatt cccgggcggc 840
98 gatcgccggg ccgaagagga gaattccctt aagaaaggtg agcctcacca cgaagtgcca 900
99 ccagggaagc ctaagcgagc actgcacaaac aacacgagct cttctccaca gccaaagag 960
100 aaacttttgg acggagaata tttaacccct cagatccgtg gccgtgagcg gttccgagtg 1020
101 ttccgagagc tgaatgagc cttagaactt aaggatgcc aggtcggtta ggagccagga 1080
102 ggcagccggg ccactctgtc tcaactgaa tccaaaaagg gtcagttcac tagtcgcct 1140
103 aaaaaactga gttcaagac cgaaggctct actcagactg a 1181

105 <210> SEQ ID NO: 4
106 <211> LENGTH: 1182
107 <212> TYPE: DNA
108 <213> ORGANISM: Artificial Sequence

```

RAW SEQUENCE LISTING

PATENT APPLICATION N: US/10/077,176

DATE: 03/04/2002
TIME: 14:46:32

Input Set : A:\433480_1.txt

Output Set: N:\CRF3\03042002\J077176.raw

110 <210> FEATURE:

111 <211> OTHER INFORMATION: Produced by genetic engineering

113 <400> SEQUENCE: 4

114 atgaaagaac	caagtcagat	tctagacgtc	gaaccacctc	taactcaaga	aaccttttca	60
115 gacnigtgga	aattgcttcc	taaaaacaac	ttttgtcccc	cattgcttag	tcaagcaata	120
116 gatgatttga	tgtgtccccc	agacgatatt	gaacaatggt	tcactgaaga	tccagttcca	180
117 gatgaagctc	caagtagccc	agaggccggt	ccaccggttg	ccccagcacc	agcagttctt	240
118 acacgggggg	ccccagctcc	gtcccctacc	tgccctctgt	catcttctat	cccttccag	300
119 aaactctacc	agggcagcta	cgttttccgt	ctgggcttct	tgcattctag	aactgcccag	360
120 tcttttaact	gtactacttc	tccagccctt	aacaagatgt	tttgccaaat	cgcgaagacc	420
121 tcccagtcac	aactgtggtt	cgaactccac	ctccacactg	gtacacgtgt	ccgggcaatt	480
122 gcatctatca	agcagagcca	gcacatgaag	gaggctctac	gtcactgtcc	acaccatgag	540
123 cgtctctcag	attctgatgg	tctagggcca	ccacagcacc	ttatccaggt	ggaaggttcc	600
124 ctacggctgg	agtatctaga	tgaacgcaac	acttttcgac	acagtgtggt	ggtgcctat	660
125 gacccaccag	aagttggctc	tgaatgcacc	accctccact	acacatctat	gtgtaacagt	720
126 tcattgcatt	ggggcatgaa	cggggggccc	atctgacca	tcatactct	cgaggattcc	780
127 tcaggttaac	tctaggacag	gaattccctt	gagggtgctg	tttgtgcatt	ccggggcgcc	840
128 gacgcgcgga	cgaagagga	gaatctccgg	aagaaaggtg	agcctcacc	cgagctgcca	900
129 ccaggaagca	ctaagcgagc	actgcacaa	aacaccagca	gttctccaca	gccaaagaag	960
130 aaacctttgg	acggagaata	tttccacctt	cagatccgtg	gccgtgagcg	gttcagagtg	1020
131 ttccgagagc	tgaatgagcc	cttagaacct	aaggatgccc	aggtggttaa	ggagccagga	1080
132 ggcagccgtg	ctcatagcag	ccacctgaag	tccaaaaagg	gtcagttctc	ctccgcctat	1140
133 aaaaaactga	tgttcaagac	cgaaggctct	gactcagact	ga		1182

135 <210> SEQ ID NO: 5

136 <211> LENGTH: 1181

137 <212> TYPE: RNA

138 <213> ORGANISM: Artificial Sequence

140 <220> FEATURE:

141 <223> OTHER INFORMATION: Produced by genetic engineering

143 <400> SEQUENCE: 5

144 tgaagaagac	acagtcagat	cctagcgtcg	aaccacctct	gagtcagcaa	accttttcag	60
145 acctgttgaa	attgcttctc	aaaaacaacg	tttgtcccc	attgcttagt	caagcaattg	120
146 atgatttgat	gtgtccccc	gaacgatatt	aacaatgggt	cactgaagat	ccagcccccag	180
147 atgaagcttc	aggaatgcca	gaagcgcgtc	caccggttgc	ccccacacca	ccagttctca	240
148 caccgggggg	ccccagctcc	gtcccctacc	ggccctctgt	atcttctctc	cccttccaga	300
149 aaactctacc	agggcagcta	cgttttccgt	ctgggcttct	gcattcttga	aactgcccag	360
150 ctgtttaact	tactactctc	ccagccctta	acaagatgtt	ttgccaactc	gcgaagacct	420
151 gcccagtcac	aactgtgggt	gactccaccc	ctccacctgg	tacacgtctc	cgcgcaattg	480
152 ccatctacaa	gcagagccag	gcacatgaag	aggtcgttag	acgtgttcca	cacctgagc	540
153 gctgtctcga	ttctgatggt	ctggggccac	ccacagcatt	tatccgagt	gaaggttaac	600
154 taccgctgga	gtatctagat	gacggcaaca	cttttcgaca	cajtggtgtg	gtgcatatg	660
155 agccaccaga	agttggtctt	gactgcacca	ccatccacta	caacttatgt	tgtaacajtt	720
156 catgcattgg	cggcatgaac	caggggcgga	tcttgacct	catactctc	gaajattctt	780
157 caggttaatt	cctaggacag	aattcttttg	aggtgcgtgt	ttgtgcattg	ccgggcccgg	840
158 atgtccggga	cgaagagga	aatctccgga	agaaaggtga	gcctcaccac	gagctgccc	900
159 caagaagcac	taagcgagca	ctggccaaca	acaccagcag	ttctccacag	ccaaagaaga	960
160 aaccttttga	cggagaatat	tttccacctc	agatccgttg	ccgtgagcgg	ttcagagatg	1020
161 tccgagaact	aatgaagccc	ttagaactta	aggatgccc	ggctggtta	gaaccaggag	1080
162 ccagccctgc	tcatagcacc	ccactgaagt	ccaaaaagg	tcactctacc	tccgcctata	1140

RAW SEQUENCE LISTING PATENT APPLICATION: US/10/077,176

DATE: 11/14/2012
TIME: 14:46:32

Input Set : A:\433480_1.txt
Output Set: N:\CRF3\03042002\J077176.raw

```

163 aaaaaactaat attcaagacc aaaggtctct actcagact a
165 <210> SEQ ID NO: 6
166 <211> LENGTH: 1182
167 <212> TYPE: DNA
168 <213> ORGANISM: Artificial Sequence
170 <220> FEATURE:
171 <223> OTHER INFORMATION: Produced by genetic engineering
173 <400> SEQUENCE: 6
174 atpaaagaac cacagtcaga tcttagcgtc gaaccacctc tgaatcagga aaccttttca 60
175 gacctgtgga aattgcttcc tgaaaacaac gttctgtccc cattgcttag tcaagcaatg 120
176 gatgatttga tctgttcccc agacgatatt gaacaatggt tcaatgaaga tccaggccca 180
177 gatgaagctc cacgaatgac agaggccgct ccaccggttg ccccaagacc agcagctcct 240
178 aacaggcggg ccccaagctcc ggcgccatcc tggcctctgt catcttctgt cctttcccag 300
179 aaaaactacc agggcagcta cggtttccgt ctgggcttct tgcattctgg aactgccaag 360
180 tctgttaact ctacgtactc tccagccctt aacaagatgt tttgccaact cgggaagacc 420
181 tgcacagtc aactgtgggt cgaactccac cctccacctc gtacacgtgt ccgcaccaatg 480
182 gccatctaca agcagagcca gcacatgacg gaggtcgtac gacgtgttcc acaccatgag 540
183 cgtctctcag attctgatgg tctggcgcca ccacagcatc ttatccgagt ggaaggtaac 600
184 ctacgctgg agtatctaga tgaccgcaac acttttcgac acagtgttgt ggtgccatat 660
185 gagcaccag aagttggctc tgactgcacc accatccact acaactatat gtgtaacagt 720
186 tcatgcatgg gggccatgaa cggcgccg atcctgacca tcatcactct caggatttcc 780
187 tcagtaatac tctaggacg gaattccttt gaggtgcacg tttgtgcatt ccggggccgc 840
188 gatccccgga ccgaagagga gaattctcgg aagaaagggt agctccacca cgaagtgcga 900
189 ccaggaagca ctaagcgagc actgcacaac aacaccagca gttctccaca gccaaagaag 960
190 aaccttttgg acggagaata ttaccacctt cagatccgtg gccgtgagcg gttcagatg 1020
191 ttccagagac tgaatgaggc cttagaactt aaggatgcc aggtgggtaa ggaagcagga 1080
192 ggcagccgtg ctcatagcag ccacctgaag tccaaaaagg gtcagtctac ctccggccat 1140
193 aaaaaactga tgtcaagac cgaaggtcct gactcagact ga
195 <210> SEQ ID NO: 7
196 <211> LENGTH: 1182
197 <212> TYPE: DNA
198 <213> ORGANISM: Artificial Sequence
200 <220> FEATURE:
201 <223> OTHER INFORMATION: Produced by genetic engineering
203 <400> SEQUENCE: 7
204 atggaagaac cacagtcaga tcttagcgtc gaaccacctc tgaatcagga aaccttttca 60
205 gacctgtgga aattgcttcc tgaaaacaac gttctgtccc cattgcttag tcaagcaatg 120
206 gatgatttga tctgttcccc agacgatatt gaacaatggt tcaatgaaga tccaggccca 180
207 gatgaagctc cacgaatgac agaggccgct ccaccggttg ccccaagacc agcagctcct 240
208 aacaggcggg ccccaagctcc ggcgccatcc tggcctctgt catcttctgt cctttcccag 300
209 aaaaactacc agggcagcta cggtttccgt ctgggcttct tgcattctgg aactgccaag 360
210 tctgttaact ctacgtactc tccagccctt aacaagatgt tttgccaact cgggaagacc 420
211 tgcacagtc aactgtgggt cgaactccac cctccacctc gtacacgtgt ccgcaccaatg 480
212 gccatctaca agcagagcca gcacatgacg gaggtcgtac gacgtgttcc acaccatgag 540
213 cgtctctcag attctgatgg tctggcgcca ccacagcatc ttatccgagt ggaaggtaac 600
214 ctacgctgg agtatctaga tgaccgcaac acttttcgac acagtgttgt ggtgccatat 660
215 gagcaccag aagttggctc tgactgcacc accatccact acaactatat gtgtaacagt 720
216 tcatgcatgg gggccatgaa cggcgccg atcctgacca tcatcactct caggatttcc 780
217 tcagtaatac tctaggacg gaattccttt gaggtgcacg tttgtgcatt ccggggccgc 840

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/077,176

DATE: 03/04/2002
TIME: 14:46:32

Input Set : A:\433480_1.txt
Output Set : N:\CRF3\03042002\J077176.raw

```

215 gctggccgga cgaagagga gaattccctt aaaaaaattt aactccaca cagcttccca
216 ccaaaagga ctaagcgaat actgccaaac aacaccagca gttctccaca gcaaaagaa
217 aaccttttg acggagaata ttccacctt cagatccctt gcaatgaag gttcagatg
218 ttccagagc tgaatgagg cttagaactt aagatgccc aggtgataa ggaagcagga
219 ggcagccgtg ctcatagcag ccactgaag tccaaaaagg gtcactctac ctcccgccat
220 aaaaaactga tttcaagac cgaaggtct gactcagact ga
221 <210> SEQ ID NO: 8
222 <211> LENGTH: 1182
223 <212> TYPE: DNA
224 <213> ORGANISM: Artificial Sequence
225 <214> FEATURE:
226 <223> OTHER INFORMATION: Produced by genetic engineering
227 <400> SEQUENCE: 8
228 atggaagac cagagtcaga tctagcgtc gaaccacctc tgaatcagga aacttttca
229 gacctgttga aattgcttcc tgaaaacaa gttctgtccc cattgctag tcaagcaatg
230 gatgatttga tctgttcccc agacgatatt gaacaaatgt tcaatgaaga tccagcccca
231 gatgagctc cagcaatgcc agaggccctt ccaccggttg cccagccacc agcagctcct
232 acaccgggg cccagctccc ggcaccatcc tggcctctgt catcttctgt ccttcccgag
233 aaaaactacc agggcageta cgtttccgt ctgggcttct tgcattcttg aactgccaag
234 tctgttactt gtacgtactc tccagccctt aacaagatgt tttgccaact cgggaagacc
235 tcccagctcc aactgtgggt cgaactccac cctccacctg gtacacgtgt cgggcgaatg
236 gacatctaca agcagagcca gcacatgacg gaggctctac gacgtgttcc acaccatgag
237 cgtgtctcag attctgatgg tctggcgcga ccacaccatc ttatccgagt ggaaggtaac
238 ctargcttgg actatctaga tgaccgcaac acttttccag acagtatgtt ggtgccatat
239 gatgagctc aagttggctc tgaactgccc accatccact acaactatat gtgtaacagt
240 tctgtgctgg cgggcagtaa cgggggggg atctgacca tcatcactct cgaagattcc
241 tctgtgctgg cgggcagtaa cgggggggg atctgacca tcatcactct cgaagattcc
242 tctgtgctgg cgggcagtaa cgggggggg atctgacca tcatcactct cgaagattcc
243 gatgagctc cgaagagga gaattccctt aaaaaagggt agccttccca cagcttccca
244 ccaaggaaga ctaagcgaac actgccaaac aacaccagca gttctccaca gcaaaagaa
245 aaccttttg acggagaata ttccacctt cagatccctt ggcgtgagcg gttcagatg
246 ttccagagc tgaatgagg cttagaactt aagatgccc aggtgataa ggaagcagga
247 ggcagccgtg ctcatagcag ccactgaag tccaaaaagg gtcactctac ctcccgccat
248 aaaaaactga tttcaagac cgaaggtct gactcagact ga
249 <210> SEQ ID NO: 9
250 <211> LENGTH: 1182
251 <212> TYPE: DNA
252 <213> ORGANISM: Artificial Sequence
253 <214> FEATURE:
254 <223> OTHER INFORMATION: Produced by genetic engineering
255 <400> SEQUENCE: 9
256 atggaagac cagagtcaga tctagcgtc gaaccacctc tgaatcagga aacttttca
257 gacctgttga aattgcttcc tgaaaacaa gttctgtccc cattgctag tcaagcaatg
258 gatgatttga tctgttcccc agacgatatt gaacaaatgt tcaatgaaga tccagcccca
259 gatgagctc cagcaatgcc agaggccctt ccaccggttg cccagccacc agcagctcct
260 acaccgggg cccagctccc ggcaccatcc tggcctctgt catcttctgt ccttcccgag
261 aaaaactacc agggcageta cgtttccgt ctgggcttct tgcattcttg aactgccaag
262 tctgttactt gtacgtactc tccagccctt aacaagatgt tttgccaact cgggaagacc
263 tcccagctcc aactgtgggt cgaactccac cctccacctg gtacacgtgt cgggcgaatg
264 gacatctaca agcagagcca gcacatgacg gaggctctac gacgtgttcc acaccatgag
265 cgtgtctcag attctgatgg tctggcgcga ccacaccatc ttatccgagt ggaaggtaac
266 ctargcttgg actatctaga tgaccgcaac acttttccag acagtatgtt ggtgccatat
267 gatgagctc aagttggctc tgaactgccc accatccact acaactatat gtgtaacagt
268 tctgtgctgg cgggcagtaa cgggggggg atctgacca tcatcactct cgaagattcc
269 tctgtgctgg cgggcagtaa cgggggggg atctgacca tcatcactct cgaagattcc
270 gatgagctc cgaagagga gaattccctt aaaaaagggt agccttccca cagcttccca
271 ccaaggaaga ctaagcgaac actgccaaac aacaccagca gttctccaca gcaaaagaa
272 aaccttttg acggagaata ttccacctt cagatccctt ggcgtgagcg gttcagatg

```

Use of the 'Xaa' has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/077,176

DATE: 11/14/2001

TIME: 14:46:33

Input Set : A:\433480_1.txt

Output Set: N:\CRF3\03042002\J077176.raw

L:11 M:270 C: Current Application Number differs. Replaced Current Application No
L:11 M:271 C: Current Filing Date differs. Replaced Current Filing Date
L:2328 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2332 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2336 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2340 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2344 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2352 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2356 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2360 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2368 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2372 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2380 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2396 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2400 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2404 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2408 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2416 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2420 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
L:2424 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71